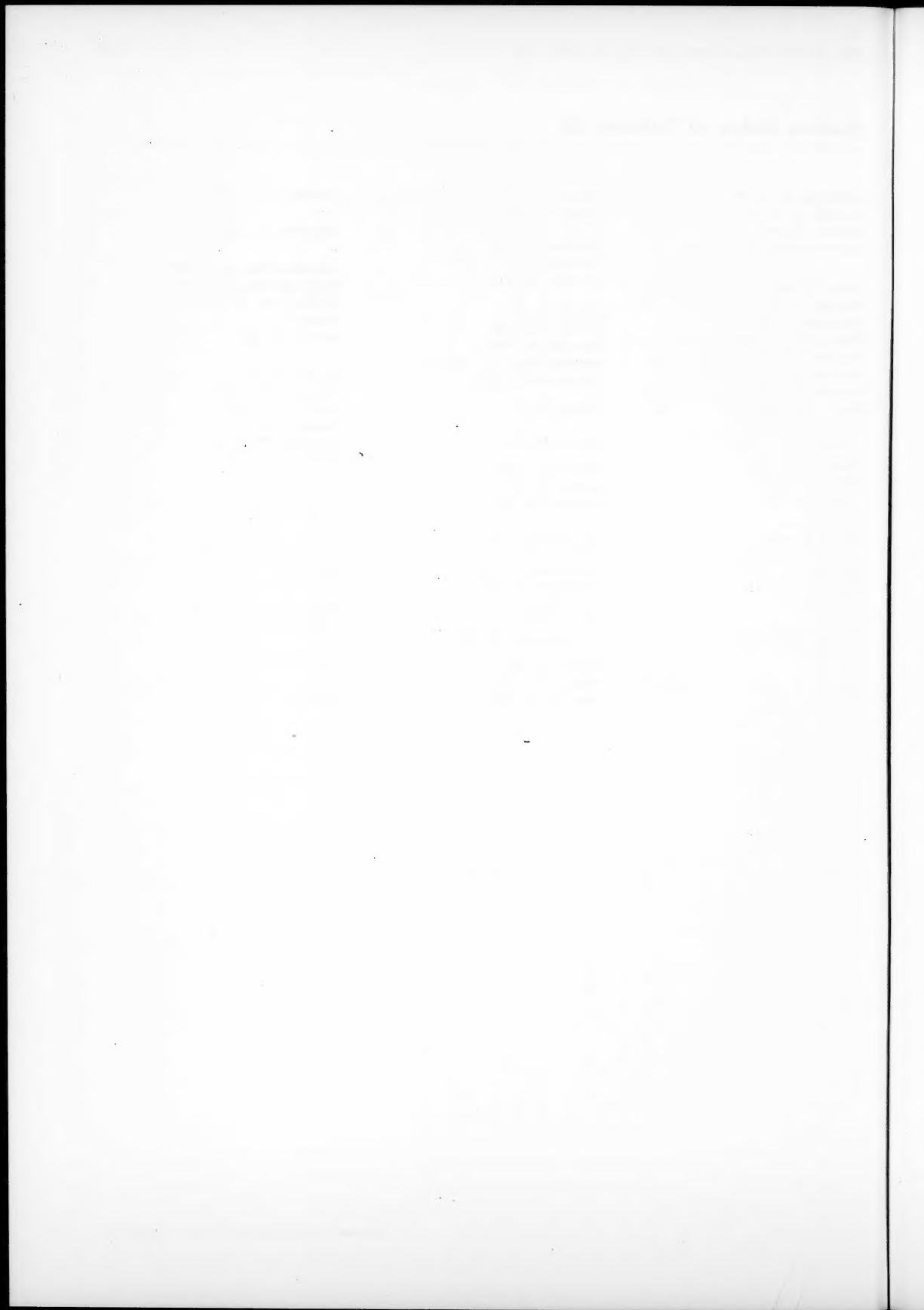


## Author Index of Volume 45

- |                      |                          |                          |
|----------------------|--------------------------|--------------------------|
| Abdel-Aal, H. K., 99 | Floquet, P., 149         | Ozbelge, H. O., 79       |
| Al-Zakri, A. S., 99  | Flores, F., B49          |                          |
| Angelov, G., 87      |                          | Pibouleau, L., 149       |
| Assassa, G. M., 99   |                          |                          |
|                      | Galindo, E., B49         | Ramachandran, K. B., B27 |
| Baldi, G., B67       | Gourdon, C., 87, 111     | Ramachandran, P. A., 49  |
| Baldyga, J., 25      | Greaves, H., B13         | Ramana Rao, M. V., 75    |
| Beschkov, J., B5     |                          | Rizzuti, L., 1           |
| Biswas, M. N., 165   | Haider, A., 43           | Rovero, G., B67          |
| Bourne, J. R., 25    | Hands, N. P., 55         |                          |
| Brucato, A., 1       | Hannote, M., B49         |                          |
| Brunjail, D., 123    | Harikrishnan, T. L., 133 |                          |
| Bruttini, R., B67    | Hashim, M. A., B27       |                          |
|                      |                          | Sedran, U., 33           |
| Casamatta, G., 111   | Iatridis, D., 1          | Sheintuch, M., B57       |
| Chase, H. A., B35    |                          | Somer, T. G., 79         |
| Chin, C. W., B13     | Journe, E., 87           | Soullignac, F., 9        |
| Comiti, J., 123      |                          | Spedding, P. L., 55      |
|                      | Kannan, A., 133          | Spence, D. R., 55        |
| Das, S. K., 165      | Kmiec, A., 137           |                          |
| Domenech, S., 149    | Kosseva, M., B5          | Tiu, C., B13             |
| Duhamet, J., 111     |                          | Torres, L., B49          |
| Dutt, N. V. K., 83   | de Lasa, H. I., 33       |                          |
|                      | Lede, J., 9              | Varma, Y. B. G., 133     |
| El-Sarha, M. E., 99  | Leschonski, K., 137      | Villermoux, J., 9        |
| El-Swify, M. E., 99  | Levenspiel, O., 43       |                          |
|                      | Li, H. Z., 9             | Wannenmacher, N., 43     |
| Fang, T. N., B13     | Line, A., 87             | Watkins, J. B., B13      |
| Felton, N., B13      | Livingston, A. G., B35   |                          |
|                      |                          | Yue, P. L., 1            |
|                      | Mahay, A., 33            | Zhang, G. T., 43         |
|                      | Milot, J. F., 111        |                          |
|                      | Mitra, A. K., 165        |                          |



## Subject Index of Volume 45

- Anemometry  
simulation of the flow patterns in a disc and doughnut column, 87
- Axial dispersion  
boundary integral solution method for axial-dispersion-with-reaction problems, 49
- Biomass  
development of a phenol degrading fluidized bed bioreactor for constant biomass holdup, B35
- Bioreactor  
development of a phenol degrading fluidized bed bioreactor for constant biomass holdup, B35
- Biotransformation  
biotransformation of D-sorbitol to L-sorbose by *Gluconobacter suboxydans* entrapped in a polyacrylamide gel, B05
- Boundary element  
boundary integral solution method for axial-dispersion-with-reaction problems, 49
- Catalytic reactor  
the cyclone reactor III: efficiency measurements of heat and mass transfer between the walls and a circulating gas, 9
- Cellulose  
simulation studies on simultaneous saccharification and fermentation of cellulose to ethanol, B27
- Condenser pressure  
other options of mass and energy input for steam jet refrigeration systems, 99
- Configuration factors  
determination of configuration factors in thermal radiative heat transfer: Monte Carlo methods, 75
- Creosote  
rheology of creosote-based wood preservative emulsions, B13
- Cyclone reactor  
the cyclone reactor III: efficiency measurements of heat and mass transfer between the walls and a circulating gas, 9
- D-sorbitol  
biotransformation of D-sorbitol to L-sorbose by *Gluconobacter suboxydans* entrapped in a polyacrylamide gel, B05
- Double feed stream  
enumeration of separation sequences involving columns, 149
- Emulsions  
rheology of creosote-based wood preservative emulsions, B13
- Engulfment  
comparison of the engulfment and the interaction-by-exchange-with-the-mean micromixing models, 25
- Ethanol  
simulation studies on simultaneous saccharification and fermentation of cellulose to ethanol, B27
- Evaporator pressure  
other options of mass and energy input for steam jet refrigeration systems, 99
- Extraction column  
simulation of a pneumatically pulsed liquid-liquid extraction column, 111  
a numerical technique for the estimation of the true mass transfer coefficient in extraction columns, 133
- Fermentation  
simulation studies on simultaneous saccharification and fermentation of cellulose to ethanol, B27
- Fermentation broths  
apparent yield stress estimation in xanthan gum solutions and fermentation broths using a low-cost viscometer, B49
- Filamentous populations  
design criteria for population selection in activated sludge, B57
- Flow patterns  
simulation of the flow patterns in a disc and doughnut column, 87
- Fluidization  
development of a phenol degrading fluidized bed bioreactor for constant biomass holdup, B35
- Fluidized photoreactors  
the absorption of light energy in flat fluidized photoreactors, 1
- Fluids  
how to narrow the residence time distribution of fluids in laminar flow in pipes, 43
- Forced flow  
mass transfer and energy aspects for forced flow through packed beds of long cylindrical particles, 123
- Fractions  
a simple method of estimating the viscosity of petroleum crude oil and fractions, 83
- Freeze-drying  
experimentation and modelling of pharmaceutical lyophilization using a pilot plant, B67
- Gas-solids injectors  
analysis of two-phase flows in gas-solids injectors, 137
- Gluconobacter suboxydans*  
biotransformation of D-sorbitol to L-sorbose by *Gluconobacter suboxydans* entrapped in a polyacrylamide gel, B05

**Heat transfer**

- the cyclone reactor III: efficiency measurements of heat and mass transfer between the walls and a circulating gas, 9
- determination of configuration factors in thermal radiative heat transfer: Monte Carlo methods, 75

**Holdup**

- prediction of holdup in two-phase gas-liquid inclined flow, 55

**Hydrocarbons**

- modelling methanol conversion to hydrocarbons: alternative kinetic models, 33

**Inclined flow**

- prediction of holdup in two-phase gas-liquid inclined flow, 55

**Kinetic models**

- modelling methanol conversion to hydrocarbons: alternative kinetic models, 33

**L-sorbose**

- biotransformation of D-sorbitol to L-sorbose by *Gluconobacter suboxydans* entrapped in a polyacrylamide gel, B05

**Laminar flow**

- how to narrow the residence time distribution of fluids in laminar flow in pipes, 43
- non-newtonian liquid flow in bends, 165

**Mass transfer**

- a numerical technique for the estimation of the true mass transfer coefficient in extraction columns, 133
- the cyclone reactor III: efficiency measurements of heat and mass transfer between the walls and a circulating gas, 9
- mass transfer and energy aspects for forced flow through packed beds of long cylindrical particles, 123

**Methanol**

- modelling methanol conversion to hydrocarbons: alternative kinetic models, 33

**Micromixing models**

- comparison of the engulfment and the interaction-by-exchange-with-the-mean micromixing models, 25

**Mixture pressure**

- other options of mass and energy input for steam jet refrigeration systems, 99

**Modelling**

- experimentation and modelling of pharmaceutical lyophilization using a pilot plant, B67

**Non-newtonian liquid flow**

- non-newtonian liquid flow in bends, 165

**Packing**

- performance of a new packing with low pressure drop, 79

**Petroleum**

- a simple method of estimating the viscosity of petroleum crude oil and fractions, 83

**Pharmaceutical lyophilization**

- experimentation and modelling of pharmaceutical lyophilization using a pilot plant, B67

**Phenol**

- development of a phenol degrading fluidized bed bioreactor for constant biomass holdup, B35

**Photocatalysis**

- the absorption of light energy in flat fluidized photoreactors, 1

**Pilot plant**

- experimentation and modelling of pharmaceutical lyophilization using a pilot plant, B67

**Pneumatic pulsation**

- simulation of a pneumatically pulsed liquid-liquid extraction column, 111

**Population selection**

- design criteria for population selection in activated sludge, B57

**Power dissipation**

- mass transfer and energy aspects for forced flow through packed beds of long cylindrical particles, 123

**Pressure**

- performance of a new packing with low pressure drop, 79
- non-newtonian liquid flow in bends, 165

**Pseudoplastic fluid**

- non-newtonian liquid flow in bends, 165

**Reflectance**

- the absorption of light energy in flat fluidized photoreactors, 1

**Residence time**

- how to narrow the residence time distribution of fluids in laminar flow in pipes, 43

**Reynolds number**

- mass transfer and energy aspects for forced flow through packed beds of long cylindrical particles, 123
- simulation of the flow patterns in a disc and doughnut column, 87

**Rheology**

- rheology of creosote-based wood preservative emulsions, B13

**Saccharification**

- simulation studies on simultaneous saccharification and fermentation of cellulose to ethanol, B27

**Separation sequences**

- enumeration of separation sequences involving columns, 149

**Single feed stream**

- enumeration of separation sequences involving columns, 149

**Sludge**

- design criteria for population selection in activated sludge, B57

**Steam jet refrigeration**

- other options of mass and energy input for steam jet refrigeration systems, 99

**Turbulent isokinetics**

simulation of the flow patterns in a disc and doughnut column, 87

**Two-phase flows**

analysis of two-phase flows in gas-solids injectors, 137

**Viscometer**

apparent yield stress estimation in xanthan gum solutions and fermentation broths using a low-cost viscometer, B49

**Viscosity**

a simple method of estimating the viscosity of petroleum crude oil and fractions, 83

**Weighting functions**

boundary integral solution method for axial-dispersion-with-reaction problems, 49

**Xanthan gum**

apparent yield stress estimation in xanthan gum solutions and fermentation broths using a low-cost viscometer, B49

**Yield stress**

apparent yield stress estimation in xanthan gum solutions and fermentation broths using a low-cost viscometer, B49